|                                                                                                                                                             | Best Availa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ıble Copy                          | * 1                           |                                                                                                                                                      |                                       |  |
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| LIPE 13                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                    |                               |                                                                                                                                                      |                                       |  |
| Company and talk any total a                                                                                                                                | ogether with app Jie                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | fees, to: Box ISSL<br>Assistan     |                               | ioner for Patents                                                                                                                                    |                                       |  |
| 1 3 8 mm E                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                    | ton, D.C. 2                   |                                                                                                                                                      | 1                                     |  |
| ING INSTRUCTIONS: This to                                                                                                                                   | m should be used for to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | enemitting the ISSLIF FE           | E Rionira                     | <del></del>                                                                                                                                          | <u>ø</u> \                            |  |
| through a randor completed when<br>Receipt, the Patent, advance orders                                                                                      | <ul> <li>experience</li> <li>experience</li></ul> | orrespondence including the mailed | the Issue Fe<br>to the cerrer | mailings of the Issue Fee Transmittal.                                                                                                               | This certificate cannot be used       |  |
| correspondence address as indicate specifying a new correspondence a                                                                                        | id unless corrected below (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | or directed otherwise in B         | Nock 1, by (a                 | Resignment or formal drawing, must have                                                                                                              |                                       |  |
| maintenance fee notifications.                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                    | JUNESD (C                     | Certificate of I                                                                                                                                     | Asiling                               |  |
| CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                    |                               | I hereby certify that this Issue Fee Transmittal is being deposited with<br>the United States Postal Service with sufficient postage for first class |                                       |  |
| QM02/061                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                    |                               | mail in an envelone addressed to the Box Issue Fee address shows on                                                                                  |                                       |  |
| Y. ROCKY                                                                                                                                                    | TSAO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | J., 15 <u>L</u> .                  |                               |                                                                                                                                                      |                                       |  |
|                                                                                                                                                             | RICHARDSON P.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | C.                                 |                               | la mc                                                                                                                                                | 1                                     |  |
| _                                                                                                                                                           | KLIN STREET<br>IA 02110-2804                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                    |                               | Winne 11,00                                                                                                                                          | TV (UDepositor's name) .              |  |
| BUSTON M                                                                                                                                                    | H UZIIU-2804                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | )                                  |                               | Quine M. Sa                                                                                                                                          | titus (Signature)                     |  |
|                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                    |                               | Ouly 27.200                                                                                                                                          | D / (Date)                            |  |
| APPLICATION NO.                                                                                                                                             | FILING DATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | TOTAL CLAIMS                       | 1:                            | EXMINER AND GROUP ART UNIT                                                                                                                           | DATE MAILED                           |  |
|                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                    |                               |                                                                                                                                                      |                                       |  |
| 09/804,6                                                                                                                                                    | 10 03/12/0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1 007                              | FLAN                          | IGAN, A                                                                                                                                              | 3743 06/18/0                          |  |
| Rinst Named Applicant KUO,                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 35 1                               | ISC 15                        | 4(b) term ext. =                                                                                                                                     | 0 Days.                               |  |
| TITLE OF                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                    |                               |                                                                                                                                                      | <u> </u>                              |  |
| NVENTION HEAT DISS                                                                                                                                          | IPATING DEVI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CE                                 | 1                             |                                                                                                                                                      |                                       |  |
|                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                    | }                             |                                                                                                                                                      |                                       |  |
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| ATTY'S DOCKET NO.                                                                                                                                           | CLASS-SUBCLASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | BATCH NO. AF                       | PPLN. TYPE                    | SMALL ENTITY FEE DUE                                                                                                                                 | DATE DUE                              |  |
|                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                    |                               |                                                                                                                                                      |                                       |  |
| 2 11107/0                                                                                                                                                   | 02002 165-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 080.300 HE                         | 38 U                          | TILITY YES \$62                                                                                                                                      | 0.00 09/18/0                          |  |
| <ol> <li>Change of correspondence address<br/>Use of PTO form(s) and Customer in</li> </ol>                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                    |                               | on the patent front page, list of up to 3 registered patent 1 Fish                                                                                   | & Richardson P.C.                     |  |
|                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8                                  | ttomeys or a                  | gents OR, alternatively, (2)<br>a single firm (having as a                                                                                           |                                       |  |
| PTO/SB/122) attached member a                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                    |                               | registered attorney or agent) 2                                                                                                                      |                                       |  |
| "Fee Address" indication (or "Fee                                                                                                                           | Address" Indication form P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | TO/SB/47) attached. a              | ittomeys or a                 | s of up to 2 registered patent<br>jents. If no name is listed, no                                                                                    |                                       |  |
|                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | n                                  | ame will be p                 | rinted. 3                                                                                                                                            |                                       |  |
| 3. ASSIGNEE NAME AND RESIDEN                                                                                                                                | CE DATA TO BE PRINTED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ON THE PATENT (print or            | type)                         | 4a. The following fees are enclosed (make                                                                                                            | check payable to Commissioner         |  |
| PLEASE NOTE: Unless an assigne<br>inclusion of assignee data is only a                                                                                      | e is identified below, no ass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ignee data wiil appear on t        | he patent.                    | of Patents and Trademarks):                                                                                                                          |                                       |  |
| the PTO or is being submitted unde                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                    |                               | Issue Fee  K Advance Order # of Copies1                                                                                                              | n                                     |  |
| (A) NAME OF ASSIGNEE                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                    | ].                            | A) Potentia Ottos: - # Ot CopiesA                                                                                                                    | ·                                     |  |
|                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                    | -   [                         | 4b. The following fees or deficiency in these                                                                                                        | fees should be charged to:            |  |
| (B) RESIDENCE: (CITY & STATE (                                                                                                                              | OR COUNTRY)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    |                               | DEPOSIT ACCOUNT NUMBER<br>(ENCLOSE AN EXTRA COPY OF THIS                                                                                             | : FORM)                               |  |
| Please check the appropriate assig                                                                                                                          | nee category indicated below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | w (will not be printed on the      | petent                        | ☐ Issue Fee                                                                                                                                          | · · · · · · · · · · · · · · · · · · · |  |
| ☐ individual ☐ corporation o                                                                                                                                | or other private group entity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | government                         |                               | Advance Order - # of Copies                                                                                                                          |                                       |  |
| The COMMISSIONER OF PATENTS                                                                                                                                 | AND TRADEMARKS IS requ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                    | ee to the app                 | ication identified above.                                                                                                                            |                                       |  |
| (Authorized Signature)                                                                                                                                      | 1. 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | (Date)<br>7-2                      |                               |                                                                                                                                                      |                                       |  |
| NOTE; The Issue Fee will not be acce                                                                                                                        | observe from arrivone other than                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                    | attorney                      |                                                                                                                                                      |                                       |  |
| or agent; or the assignee or other part                                                                                                                     | y in interest as shown by the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | records of the Patent and          | 7 1:                          | 08/01/2001 TGEDANU2 00000095                                                                                                                         | 09804610                              |  |
| Trademark Office. Y. Rocky  Burden Hour Statement: This form                                                                                                | Tsao. Reg. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                    | will year                     | 01 FC:242                                                                                                                                            |                                       |  |
| depending on the needs of the indiv                                                                                                                         | ridual case. Any comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ts on the amount of time I         | required (                    | 02 FC:561                                                                                                                                            | 620.00 DP<br>30.00 DP                 |  |
| to complete this form should be se<br>Office, Washington, D.C. 20231. D                                                                                     | ent to the Chief Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | n Officer, Patent and Tra          | idemark                       |                                                                                                                                                      |                                       |  |
| ADDRESS. SEND FEES AND TH                                                                                                                                   | IS FORM TO: Box Issue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ee, Assistant Commissi             | oner for                      |                                                                                                                                                      | •                                     |  |
| Patents, Washington D.C. 20231                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                    |                               | •                                                                                                                                                    |                                       |  |
| Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                    |                               |                                                                                                                                                      |                                       |  |

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